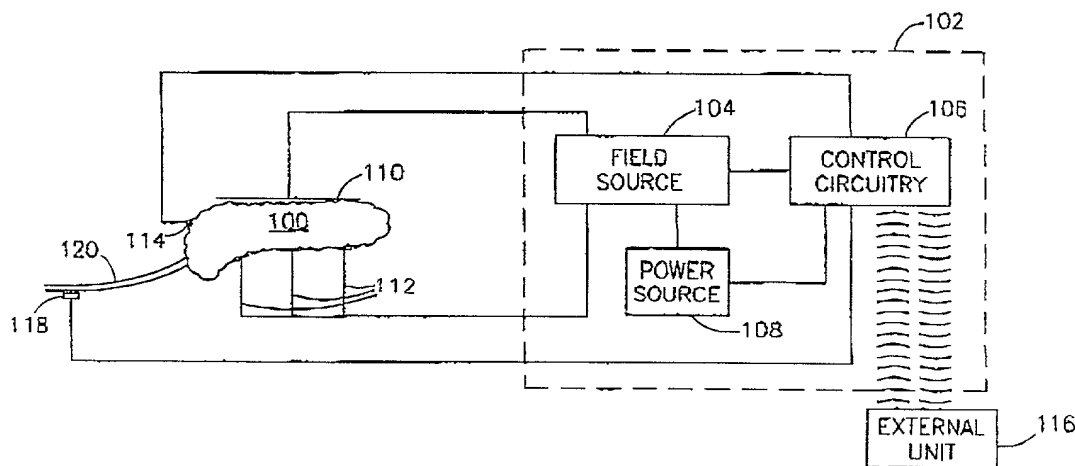




INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(51) International Patent Classification ⁷ : A61N 1/36		A1	(11) International Publication Number: WO 00/53257
			(43) International Publication Date: 14 September 2000 (14.09.00)
(21) International Application Number: PCT/IL00/00132		(81) Designated States: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, ARIPO patent (GH, GM, KE, LS, MW, SD, SL, SZ, TZ, UG, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG).	
(22) International Filing Date: 5 March 2000 (05.03.00)			
(30) Priority Data: 60/123,532 5 March 1999 (05.03.99) US			
(63) Related by Continuation (CON) or Continuation-in-Part (CIP) to Earlier Application US 60/123,532 (CON) Filed on 5 March 1999 (05.03.99)			
(71) Applicant (for all designated States except US): IMPULSE DYNAMICS (ISRAEL), LTD. [IL/IL]; P.O. Box 2044, 39120 Tirat Hacarmel (IL).		Published With international search report.	
(72) Inventors; and			
(73) Inventors/Applicants (for US only): DARWISH, Nissim [IL/IL]; Hanke Street 22A, 34606 Haifa (IL). HAREL, Tami [IL/IL]; Harel Street 22, 34555 Haifa (IL). FELSEN, Bella [IL/IL]; Hatzvi Street 26, 34355 Haifa (IL).			
(74) Agents: FENSTER, Paul et al.; Fenster & Company Patent Attorneys, Ltd., P.O. Box 10256, 49002 Petach Tikva (IL).			

(54) Title: BLOOD GLUCOSE LEVEL CONTROL



(57) Abstract

A pancreatic controller (102), comprising: a glucose sensor (118), for sensing a level of glucose or insulin in a body serum; at least one electrode (110, 112), for electrifying an insulin producing cell or group of cells; a power source (104) for electrifying said electrode with a pulse that does not initiate an action potential in said cell and has an effect of increasing insulin secretion; and a controller (106) which receives the sensed level and controls said power source to electrify said electrode to have a desired effect on said level.